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RAW SEQUENCE LISTING

DATE: 10/16/2001

PATENT APPLICATION: US/09/855,797

TIME: 14:50:00

Input Set : N:\Crf3\RULE60\09855797.txt

Output Set: N:\CRF3\10162001\I855797.raw

7 <110> APPLICANT: Hartley, James L.  
10 Brasch, Michael A.  
13 Temple, Gary F.  
16 Fox, Donna K.  
23 <120> TITLE OF INVENTION: Recombinational Cloning Using Nucleic Acids Having  
26 Recombination Sites  
32 <130> FILE REFERENCE: 0942.2850008  
37 <140> CURRENT APPLICATION NUMBER: 09/855,797  
40 <141> CURRENT FILING DATE: 2001-05-16  
47 <150> PRIOR APPLICATION NUMBER: 09/296,281  
50 <151> PRIOR FILING DATE: 1999-04-22  
56 <150> PRIOR APPLICATION NUMBER: US 60/065,930  
59 <151> PRIOR FILING DATE: 1997-10-24  
65 <160> NUMBER OF SEQ ID NOS: 60  
71 <170> SOFTWARE: PatentIn Ver. 2.0  
77 <210> SEQ ID NO: 1  
80 <211> LENGTH: 25  
83 <212> TYPE: DNA  
86 <213> ORGANISM: Unknown  
92 <220> FEATURE:

ENTERED

W--> 95 <221> NAME/KEY: OTHER

98 <222> LOCATION: 18  
101 <223> OTHER INFORMATION: "n" may be any nucleotide  
104 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
107 products  
113 <400> SEQUENCE: 1

W--> 116 rkycwgcttt yktrtacnaa stsgb

25

122 <210> SEQ ID NO: 2  
125 <211> LENGTH: 25  
128 <212> TYPE: DNA  
131 <213> ORGANISM: Unknown  
137 <220> FEATURE:

W--> 140 <221> NAME/KEY: OTHER

143 <222> LOCATION: 18  
146 <223> OTHER INFORMATION: "n" may be any nucleotide  
149 <223> OTHER INFORMATION: Description of Unknown Organism: recombination  
152 products  
158 <400> SEQUENCE: 2

W--> 161 agccwgcttt yktrtacnaa ctsgb

25

167 <210> SEQ ID NO: 3  
170 <211> LENGTH: 25  
173 <212> TYPE: DNA  
176 <213> ORGANISM: Unknown  
182 <220> FEATURE:

W--> 185 <221> NAME/KEY: OTHER

188 <222> LOCATION: 18  
191 <223> OTHER INFORMATION: "n" may be any nucleotide

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194 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
197     products
203 <400> SEQUENCE: 3
W--> 206 gttcagcttt cktrtacnaa ctsgb                25
212 <210> SEQ ID NO: 4
215 <211> LENGTH: 25
218 <212> TYPE: DNA
221 <213> ORGANISM: Unknown
227 <220> FEATURE:
W--> 230 <221> NAME/KEY: OTHER
233 <222> LOCATION: 18
236 <223> OTHER INFORMATION: "n" may be any nucleotide
239 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
242     products
248 <400> SEQUENCE: 4
W--> 251 agccwgcttt cktrtacnaa gtsgb                25
257 <210> SEQ ID NO: 5
260 <211> LENGTH: 25
263 <212> TYPE: DNA
266 <213> ORGANISM: Unknown
272 <220> FEATURE:
W--> 275 <221> NAME/KEY: OTHER
278 <222> LOCATION: 18
281 <223> OTHER INFORMATION: "n" may be any nucleotide
284 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
287     products
293 <400> SEQUENCE: 5
W--> 296 gttcagcttt yktrtacnaa gtsgb                25
302 <210> SEQ ID NO: 6
305 <211> LENGTH: 25
308 <212> TYPE: DNA
311 <213> ORGANISM: Unknown
317 <220> FEATURE:
320 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
323     products
329 <400> SEQUENCE: 6
332 agcctgcttt tttgtacaaa cttgt                25
338 <210> SEQ ID NO: 7
341 <211> LENGTH: 25
344 <212> TYPE: DNA
347 <213> ORGANISM: Unknown
353 <220> FEATURE:
356 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
359     products
365 <400> SEQUENCE: 7
368 agcctgcttt cttgtacaaa cttgt                25
374 <210> SEQ ID NO: 8
377 <211> LENGTH: 25
380 <212> TYPE: DNA

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383 <213> ORGANISM: Unknown
389 <220> FEATURE:
392 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
395     products
401 <400> SEQUENCE: 8
404 acccagcttt cttgtacaaa gtggt                25
410 <210> SEQ ID NO: 9
413 <211> LENGTH: 25
416 <212> TYPE: DNA
419 <213> ORGANISM: Unknown
425 <220> FEATURE:
428 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
431     products
437 <400> SEQUENCE: 9
440 gttcagcttt ttgtacaaa cttgt                25
446 <210> SEQ ID NO: 10
449 <211> LENGTH: 25
452 <212> TYPE: DNA
455 <213> ORGANISM: Unknown
461 <220> FEATURE:
464 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
467     products
473 <400> SEQUENCE: 10
476 gttcagcttt cttgtacaaa cttgt                25
482 <210> SEQ ID NO: 11
485 <211> LENGTH: 25
488 <212> TYPE: DNA
491 <213> ORGANISM: Unknown
496 <220> FEATURE:
499 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
501     products
507 <400> SEQUENCE: 11
510 gttcagcttt cttgtacaaa gtggt                25
516 <210> SEQ ID NO: 12
519 <211> LENGTH: 25
522 <212> TYPE: DNA
525 <213> ORGANISM: Unknown
531 <220> FEATURE:
534 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
537     products
543 <400> SEQUENCE: 12
546 agcctgcttt ttgtacaaa gttgg                25
552 <210> SEQ ID NO: 13
555 <211> LENGTH: 25
558 <212> TYPE: DNA
561 <213> ORGANISM: Unknown
567 <220> FEATURE:
570 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
573     products

```

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579 <400> SEQUENCE: 13
582 agcctgcttt cttgtacaaa gttgg                25
588 <210> SEQ ID NO: 14
591 <211> LENGTH: 25
594 <212> TYPE: DNA
597 <213> ORGANISM: Unknown
603 <220> FEATURE:
606 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
609     products
615 <400> SEQUENCE: 14
618 acccagcttt cttgtacaaa gttgg                25
624 <210> SEQ ID NO: 15
627 <211> LENGTH: 25
630 <212> TYPE: DNA
633 <213> ORGANISM: Unknown
639 <220> FEATURE:
642 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
645     products
651 <400> SEQUENCE: 15
654 gttcagcttt ttgtacaaa gttgg                25
660 <210> SEQ ID NO: 16
663 <211> LENGTH: 25
666 <212> TYPE: DNA
669 <213> ORGANISM: Unknown
675 <220> FEATURE:
678 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
681     products
687 <400> SEQUENCE: 16
690 gttcagcttt cttgtacaaa gttgg                25
696 <210> SEQ ID NO: 17
699 <211> LENGTH: 39
702 <212> TYPE: DNA
705 <213> ORGANISM: Unknown
711 <220> FEATURE:
714 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
717     products
723 <400> SEQUENCE: 17
726 ccaccacaaa cgcgtccatg gaattacact ttaatttag    39
732 <210> SEQ ID NO: 18
735 <211> LENGTH: 39
738 <212> TYPE: DNA
741 <213> ORGANISM: Unknown
747 <220> FEATURE:
750 <223> OTHER INFORMATION: Description of Unknown Organism: recombination
753     products
759 <400> SEQUENCE: 18
762 ccaccacaag tcgacgcatg ccgacagcct tccaaatgt    39
768 <210> SEQ ID NO: 19
771 <211> LENGTH: 46

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PATENT APPLICATION: US/09/855,797

DATE: 10/16/2001

TIME: 14:50:00

Input Set : N:\Crif3\RULE60\09855797.txt

Output Set: N:\CRF3\10162001\I855797.raw

```

774 <212> TYPE: DNA
777 <213> ORGANISM: Artificial Sequence
783 <220> FEATURE:
786 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
788     oligonucleotide
794 <400> SEQUENCE: 19
797 ggccgattac gatatcccaa cgaccgaaaa cctgtatttt cagggt          46
803 <210> SEQ ID NO: 20
806 <211> LENGTH: 30
809 <212> TYPE: DNA
812 <213> ORGANISM: Artificial Sequence
818 <220> FEATURE:
821 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
823     oligonucleotide
829 <400> SEQUENCE: 20
832 caggttttcg gtcgttgga tatcgtaatc          30
838 <210> SEQ ID NO: 21
841 <211> LENGTH: 47
844 <212> TYPE: DNA
847 <213> ORGANISM: Artificial Sequence
853 <220> FEATURE:
856 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
858     oligonucleotide
864 <400> SEQUENCE: 21
867 ggccagatta cgatatccca acgaccgaaa acctgtattt tcagggt          47
873 <210> SEQ ID NO: 22
876 <211> LENGTH: 31
879 <212> TYPE: DNA
882 <213> ORGANISM: Artificial Sequence
888 <220> FEATURE:
891 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
893     oligonucleotide
900 <400> SEQUENCE: 22
903 caggttttcg gtcgttgga tatcgtaatc t          31
909 <210> SEQ ID NO: 23
912 <211> LENGTH: 48
915 <212> TYPE: DNA
918 <213> ORGANISM: Artificial Sequence
925 <220> FEATURE:
928 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic
930     oligonucleotide
936 <400> SEQUENCE: 23
939 ggccaagatt acgatatccc aacgaccgaa aacctgtatt ttcagggt          48
945 <210> SEQ ID NO: 24
948 <211> LENGTH: 32
951 <212> TYPE: DNA
954 <213> ORGANISM: Artificial Sequence
961 <220> FEATURE:
964 <223> OTHER INFORMATION: Description of Artificial Sequence: synthetic

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## VERIFICATION SUMMARY

DATE: 10/16/2001

PATENT APPLICATION: US/09/855,797

TIME: 14:50:01

Input Set : N:\Crif3\RULE60\09855797.txt

Output Set: N:\CRF3\10162001\I855797.raw

L:95 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:1  
L:116 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1  
L:140 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:2  
L:161 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2  
L:185 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:3  
L:206 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3  
L:230 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:4  
L:251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4  
L:275 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:5  
L:296 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5